

What is claimed:

1. A method for treating various dermatological conditions comprising the steps of:
generating a light that has a specific wavelength distribution pattern output and intensity;
filtering said light through a first filter and a second filter to construct an optimum
5 wavelength distribution pattern to encompass multiple modalities of dermatologic treatment with
said light;
placing a hollow reflective light guide with a window against a skin section forming an
optical seal to contain said light; and
covering said skin section with a plume barrier lotion; and
10 illuminating said skin section by directing said light through said first and second filters
through said hollow reflective light guide through said plume barrier lotion.
2. The method according to claim 1, wherein said light has a specific pulse
geometry.
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3. The method according to claim 1, wherein said light exiting said hollow light
guide has a wavelength greater than 390nm.
4. The method according to claim 1, wherein said light generated may be infused
20 with a single wavelength laser rod source.
5. The method according to claim 2, wherein said light source comprises multiple
individual flashlamps which are fired simultaneously or consecutively with a delay between each
said pulse.
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6. The method according to claim 5, wherein said pulses from said flashlamp are
approximately 14ms in duration.
7. The method according to claim 6, wherein said flashlamp(s) are fired with
progressive logarithmic spacing between said pulses to eliminate active skin cooling.

8. The method according to claim 5, wherein said flashlamps are individually powered by an electrical energy supply that is 160-400 joules for every cm² of output.

9. The method according to claim 1 wherein said light source is non-laser and radially emitted and photons from said light source are reflected from said hollow reflective light guide and exit through said first filter at multiple angles through the light guide cooling water down said hollow reflective light guide and through said second filter for further desired wavelength cutoff and through said hollow reflective light guide into said skin section at multiple angles.

10. The method according to claim 1, wherein said light source comprises:
10 a power source(s);
single or plurality of flashlamps;
a water or air cooling system;
a control source for firing said flashlamps with logarithmic spacing; and
a laser rod head insertion for single wavelength infusion.

15 11. The method according to claim 10 wherein said flashlamps consist of Kr, Xe gas.

12. The method according to claim 1, wherein said hollow reflective light guide is made of ceramic.

13. The method according to claim 1 wherein said light spectral output pattern is generated in an output between 390nm and 1,200nm.

20 14. The method according to claim 1 wherein said light spectral output pattern is generated at a low level pre/post pulse firing for dermatological lesion pre/post heating.

15. The method according to claim 10, wherein said control source allows simultaneous, overlap and consecutive firing of said flashlamps.

25 16. The method according to claim 10, wherein said flashlamps consist of synthetically fused quartz doped with cerium oxide.

17. An apparatus for treating a dermatological condition comprising:

a water cooled delivery head;

at least one flashlamp contained within said delivery head wherein said flashlamp produces a desired light output;

5 an individual energy source connected to said flashlamp;

a control mechanism connected to said individual energy source said control mechanism allowing for simultaneous, overlapping and consecutive firing of said flashlamps;

a laser rod inserted into the delivery head for single wavelength light infusion into said light output;

10 a first light filter and a second light filter positioned beneath said delivery head wherein said first and second light filters eliminate selected wavelengths or portions thereof of said light; and

a water cooled hollow reflective light guide directing said light to a treatment area;

15 18. The apparatus of claim 17 wherein said energy source is provided by battery power.

19. The apparatus of claim 17 wherein said energy source is able to deliver low level light through said flashlamps for pre/post dermatological lesion heating.